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§ 39. *Fertilization of Gerardia flava*, L.—I have been watching the fertilization of this plant. The flower opens outwards, or a little downwards, with the stamens and pistil crowded close to its upper lobes. Both the cells of the anther and the summit of the stigma face toward the earth, so that self fertilization is effectually prevented; besides, the anthers appear to mature a little before the stigma, which finally projects some way beyond the longer pair. I saw a honey-bee visiting these flowers in search of pollen, both thighs being already weighted with large pellets. It entered the flower back downward, clinging to the filaments for support, and, turning around as it worked away with its proboscis, dragged the pollen out of the cells, while at the same time the pellets upon its body brushed against the stigma. Every flower must be visited, as all the seed-vessels were maturing.

Aquebogue, August.

H. W. YOUNG.

§ 40. *Fern-fungus*.—A frond of *Pteris aquilina*, L., sent us by Mr. Young, was marked by black spots between the veins. Mr. Peck, the fungologist, writes that it is *Dothidea Pteridis*, Fr. (Syst. Myc. Vol. II., p. 555. Handbook of British Fungi, p. 807), and that he has seen sterile specimens only, these, like the others, being without spores.

§ 41. *Suffolk Co.—Riverhead*.—The only plant new to our State that I can report this year is *Carex striata*, Mchx.—*Rumex Engelmanni*, Ledeb., proves to be well established at the mouth of Peconic River, covering a large area of sandy beach with *Calamagrostis arenaria* and *Andropogon scoparius*.

I have also to report finding *Lobelia Dortmanna*, L. in Sweezy's pond, one mile S. W. of Riverhead;—*Tilia Americana*, L., var. *pubescens*, Gray, in two different localities at Northville;—*Solidago odora*, Ait., var. *inodora*, Gray, at Laurel Pond, Franklinville, none of the typical form being found with it. The pellucid dotted leaves marked it unmistakably, but the anisate odor was as entirely wanting as in *S. arguta* with which it grew. As before I find this form in more loamy soil than the common one, and suppose that it is frequently overlooked. Does not the character of the soil alone cause the development of this scentless form? At Luce's pond in Northville I find *Cicuta bulbifera*, L.; *Myriophyllum tenellum*, Bigel.; *Lathyrus palustris*, L.; and abundance of *Woodwardia angustifolia*, Smith. In shaded pools *Lemna minor*, L., abounds; while in pools of brackish marshes with *Pluchea camphorata* (Does this ever grow in soil not saline?), at Wading River I find *Utricularia intermedia*, Hayne. At Long Pond this summer *U. inflata*, Walt., has been abundant; but, owing to the unusual height of the pond, the locality of *Rhynchospora nitens* is inundated and no plants are to be found.

I desire to exchange botanical specimens, especially of the Cyperaceæ and Gramineæ.

Aquebogue P. O.

HENRI W. YOUNG

§ 42. *Suffolk Co.—Wading River*.—Mr. Miller reports the very interesting discovery of *Polypremum procumbens*, L.; also specimens of *Asplenium ebeneum*, Ait., with the fronds wider than usual and the segments very sharply serrate, which he proposes to ticket at Dr. Gray's suggestion as Var. *serratum*. Among other discoveries,

Mr. Miller finds *Plantago pusilla*, Nutt., almost as common as *P. Virginica*, L.; *Asclepias purpurascens*, L.; *Botrychium simplex* Hitchcock, quite abundant; *Cunila Mariana*, L.; *Scirpus polyphyllus*, Vahl.; *S. fluviatilis*, Gray; and *S. Olneyi*, Gray.

§ 43. *Larix* again.—Mr. Hall noticed, in August, Larches in Central Park that had put forth new leaves and now and then a new cone.

§ 44. *Aspidium fragrans*, Swartz.—We have received from Mr. Charles H. Peck beautiful specimens of this fern, from Lake Avalanche in the Adirondacks. Mr. Peck remarks, with a conscientiousness which we earnestly hope other collectors will lay to heart, "It is not plenty there, and I was careful not to exhaust the locality, so obtained but few." Mr. Robinson, of Salem, Mass., points out a probable error in Vol. III., No. 2, of the BULLETIN, where Bellows Falls, N. H., is given as a locality. He says: "I have specimens from Alpine Cascade, near Berlin Falls, N. H., and also *Woodsia glabella*, R. Brown, from the same place. I found *A. fragrans* at Crystal Cascade, near the Glen House, August, 1865."

§ 45. Herbarium for Sale.—Dr. K. Keck, Schloss Friedegg, Schwertberg, Upper Austria, writes us that he is the owner of a very rich Herbarium, which he has concluded to sell. He states that it comprehends the Flora of the whole of Europe in rare completeness, and fourteen or fifteen thousand of the rarest species of Asia (particularly from the Russian provinces), of Africa and of New Holland, all mounted and arranged after Endlicher. In all rather more than less than 100,000 specimens, of 19,000 species. He sends us a long list of the special collections (in nearly every part of the world), from which his herbarium is derived; among them we notice the names of our own Canby and Wright, and he calls particular attention to the collection of Ledebour in the north of Asia, and of Sieber in the West Indies, New Holland and elsewhere. Dr. Keck also sends us, as a fair specimen of the richness of his collection, the names of about two hundred species of *Astragalus*, about eighty species of *Panicum*, and nearly eighty of *Polypodium*. He values the whole at \$6,000, or \$6 per hundred specimens.

We cheerfully comply with his request in calling the attention of the managers of our public institutions to this opportunity of securing a very valuable Herbarium. Of course, impartial testimony would have to be obtained from Europe. We will gladly show his letter and lists to those interested.

§ 46. *Strangers*.—Just north of the Hyde Park Station of the Hudson River R. R., we found, early in September, *Rudbeckia triloba*, L., but the lower leaves were very slightly lobed, and *Galium Mollugo*, L., which is heretofore reported only from Washington Heights, New York Island. Between Poughkeepsie and the Highlands *Lythrum Salicaria*, L., abounds. We did not notice it below the Highlands, though we have been told that it occurs there.

§ 47. *New Publications*.—We have received: 1. *John Torrey: A Biographical Notice*, [from the American Journal of Science and Arts, Vol. IV., June, 1873], By A. Gray.—2. *Notes on the Genus Yucca*. By George Englemann, M. D., [Transactions of the Academy of Science of St. Louis.]—3. *Descriptions of New Species*